	А	В	С
1	List of Proposed Changes to D	elaware Regulations	Governing Aboveground Storage Tanks
2	Section	Action	Comments on Change
3	Owner and Operator/Owner or Operator		Owner and Operator changed to Owner or Operator in situations where only one party needs to submit documents to the Department; however as stated in Part A, Owner and Operators are jointly and severaly liable for all requirements.
	All terms "within x days of the effective		mable for all requirements.
4	date of the Regulations"	Amended	Actual date inserted
5	PART A	7111011000	, totadi date incorted
	Part A, Section 1.2.2 Part A, Section 1.2.2.4	Amended Amended	reference to Part A, Section 8 deleted as that section was moved to Part E; all sections then renumbered. Defined terms capitalized
	Tare A, Goodon 1.2.2.4	Amerided	Defined terms suprianzed
	Part A, Section 1.2.3, 1.2.3.1 and 1.2.3.2.	Amended	Due to renumbering and changes to Part A, there are several reference changes in this section. ASTs of smaller size are only subject to certain portions of the Regulations. These include registration, but no annual fee, submittal of new registration whenever there are changes in the information provided, submital of confidential information protection and signage requirements, and remediation of any Release of Regulated Substance. Size deliniations changed to accurately match statute size requirements. Farm/Agricultural BMPs must be submitted in writing
9	Part A, Section 1.2.6.	Amended	and approval from DNREC must be in writing
	Part A, Definitions - AST	Amended	Aboveground Storage Tank definition: clarified that AST does not include an AST that has met the requirements of Permanent Closure in accordance with the AST Regulations
11	Part A, Definitions - AST	Amended	Added under Flow Through Proces Tanks that are not exempted: 4) a tank that stores fuel for combustion subsequently used to provide heat for a process
12	Part A, Definitions - AST	Amended	Added for clarification the words "permanently installed" prior to 'point of isolation'
13	Part A, Definitions - Change In Service	Amended	Change-In-Service: to include "when the AST is Emptied" Clarification added - Heating Fuel AST must be directly connected to the heat generating equipment and the
	Part A, Definitions- Consumptive Use Part A, Definition - Corrective Action	Amended Added	fuel must be utilized solely to generate heat
	Part A, Definition - Corrective Action Part A, Definitions - Day	New	New - not previously defined To clarify whether "days" means business or calendar days a definition of "day" has been added.
	Part A, Definitions - Effective Date	Added	means the most recent date of promulgation of these Regulations
18	Part A, Definitions - Empty or Emptying	Added	New definition
	Part A, Definitions - External Liner	Added	Added a definition of External Liner.
20	Part A, Definitions - Flow Through Process Tank	Amended	Added to definition: "does not include (4) a tank that stores fuel for combustion subsequently used to provide heat for a process"
21	Part A, Definitions - Heating Fuel	Amended	clarification added

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			means the potential for a Release which requires
			action to prevent or mitigate damage to the
	Part A, Definitions - Imminent threat of		environment or endangerment to public health or
22	a Release	Added	welfare which may result from such a release
	u release	raded	Wellare Willori may result from Such a release
			means there are signs that an AST, or the secondary
			containment system are failing or could potentially fail
			to contain a Regulated Substance. Indicated Releases
			are Releases that are not observable and are not
23	Part A, Definitions - Indicated Release	Added	directly attributable to another source
	,		Financial Assurance changed to Financial
	Part A, Definitions - Legal Defense Cost		Responsibility for consistency with the rest of the
24	and Provider of Financial Assurance	Amended	Regulations
			Definition of Motor Oil added for clarification of what
25	Part A, Definitions - Motor Oil	Added	tanks are exempt in Part A, Section 1.2.2.4.
	,		
			clarification added: means a Person operating a facility
			or who has operated a facility, including, but not limited
			to, by lease, contract or other form of authorization
			agreement. Operator includes any Person who has
			any of the responsibility for the care, custody, and
27	Part A, Definitions - New AST	Amended	control of the daily operation of an AST.
	,		The definition has been modified for clarification of
			what activities and businesses qualify as
			"Noncommercial" to qualify for the exemption in Part A,
28	Part A, Definitions - Noncommercial	Amended	Section 1.2.2.4.
	Part A, Definitions - Owner	Amended	Commensurate with new legislation 2014
			Ŭ
			means actually participating in the management or
			operational affairs of an Aboveground Storage Tank or
			Facility and does not include merely have the capacity
			to influence, or the unexercised right to control, an
30	Part A, Participation in Management	Added	Aboveground Storage Tank or Facility operations.
			Amended definition to include any circumstance where
			a change in contents would affect a tank's regulated
			status. "the replacement of one substance stored in an
			AST and Ancillary Piping for another substance that
			would effect a change in the AST and Ancillary Piping's
	Part A, Definitions- Permanent Change		regulated status based on capacity and substance
	in Contents	Amended	stored."
32	Part A, Definitions - Pipe	Amended	Added "vapor recovery piping" to definition of Pipe
			clarification added to definition of petroleum "petroleum
			product, or contains one percent (1%) or more of a
			petroleum product, or was originally derived from a
	Part A, Definitions - Regulated		petroleum or petroleum containing product" ;and added
33	Substance	Amended	Heating Fuel
			means activities conducted to protect human health,
			safety, and the environment. These activities include
			but are not limited to evaluating risk, making no further
			action determinations, monitoring institutional and
	Dont A. Doffinitions - Decree Pal Act	A -1 -11	engineering controls, and designing and operating
34	Part A, Definitions - Remedial Action	Added	cleanup equipment
	Part A, Definitions, Sacrificial Anode		
35	Cathodic Protection System	Amended	Added "Cathodic Protection" for clarification

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			means to measure for the presence of a Release
			where contamination is most likely to be present at an
			AST site. Selection of sample types, sample locations
			and measurement methods shall be based on the
			nature of the substance stored, the type of backfill, the
			depth to groundwater, and other factors appropriate for
			identifying the presence of a Release. A Site
			Assessment is not restricted to the property containing
36	Part A, Definitions - Site Assessment	Added	the AST System
	Part A, Definitions, Tank Management	7.0000	and rich eyelem
37	Branch	Amended	"Branch" changed to "Section" to update to current title
		7	Updated addresses, phone numbers of referenced
38	Part A, Section 3.1	Amended	standards organizations
	Tarry, Oction 6.1	Ameriaea	Added: United States Department of Labor,
20	Part A, Section 3.1.1.11	Amended	Occupational and Safety and Health Administration.
39	rant A, Section 3.1.1.11	Amended	Amended for referenced standards to be those in
			effect on the date of Promulgation, not the most recent
40	Part A. Saction 2.2.4	Amandad	, ·
40	Part A, Section 3.2.1.	Amended	edition or version in future publication.
			Undates and additions to Ctandards and in the
			Updates and additions to Standards used in the
,,	Part A. Saction 2.2	Amandad	Regulations. Added date of edition currently in effect
41	Part A, Section 3.3	Amended	to each standard. 27 specific edition dates added
			Added: reference standard API RP 2015,
1,0	D (A O () 0040		Requirements for Safe Entry and Cleaning of
42	Part A, Section 3.3.1.9.	Added	Petroleum Storage Tanks
			Added referenced standard API RP 2016, Guidelines
ا ا			and Procedures for Entering and Cleaning Petroleum
43	Part A, Section 3.3.1.10	Added	Storage Tanks
			Added referenced standard NEDA 20A Code for Mater
	Dort A Continu 2.2.4.2	\	Added referenced standard NFPA 30A, Code for Motor
44	Part A, Section 3.3.4.2.	Added	Fuel Dispensing Facilities and Repair Garages
			Deleted reference standard NFPA 303, Fire Protection
1,-	Don't A. Old Cootion 2.4.0	Dalatad	Standard for Marinas and Boatyards: Not utilized in
45	Part A, Old Section 3.4.2.	Deleted	regulations
			Added: Standard SP031 Standard for Repair of Shop-
			Fabricated Above Ground Tanks for Storage of
,	Dest A. Octable 2000		Flammable and Combustible Liquids 4th Edition,
46	Part A, Section 3.3.6.2	Added	November 2008
	De d. A. Octobre 2000	A 1.1. 1	ANSI Standards now ASME standards - names
47	Part A, Section 3.3.8.2	Added	updated
_	D (A 0); 2222		ANSI Standards now ASME standards - names
48	Part A, Section 3.3.8.3	Added	updated
			ANSI Standards now ASME standards - names
49	Part A, Section 3.3.8.4	Added	updated
			ASME, Boiler & Pressure Vessel Code, Section VIII,
	Part A, Section 3.3.8.5	Added	Division 1, Design & Fabrication of Pressure Vessels
51	Part A, Section 3.5.5 (old)	Deleted	ANSI Standards now ASME standards
			Added: OSHA, 29 CFR, 1910.1200, Occupational
			Safety and Health Standards, Toxic and Hazardous
52	Part A, sectin 3.3.10.1	Added	Substances, Hazard Communication. May 2012
			Wording amended to delete "registration of ASTs shall
			be renewed annually by payment of registration fees",
			as some ASTs do not require payment of fees only
53	Part A, Section 4.1.2	Added/Amended	registration.
53	Part A, Section 4.1.2	Added/Amended	1

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54 Part A, Section 4.1.6	Amended	Clarified what circumstances require the Owner to notify DNREC of any significant change in information presented on the original registration form.
55 Part A, Section 4.1.8.	Added	Safety Data Sheet to be submitted with AST Registration Form
do Farri, edución inte	71000	110giottation 1 oim
		Requirement that Owners notify DNREC within 7 working days of the date of final completion of a new
		installation. DNREC will issue written approval to
56 Part A, Section 4.1.9	Added	operate within 7 working days of final completion.
		ASTs not subject to annual registration fee do not
57 Part A, Section 4.1.10	Added	require annual renewal.
58 Part A, Section 4.3	Amended	Added: Permanent Closure in Place, Emptying to title
59 Part A, Section 4.3.2	Amended	Added "Empty" to Notification Requirements
,		Any change in the schedule of work for a Change In
		Service must be communicated to the Department in
		writing a minimum of 48 hours prior to the new
60 Part A, Section 4.3.4	Added	scheduled date of work
61 Part A Section 4.2.5	Added	The Owner shall notify DNREC in writing of the actual
61 Part A, Section 4.3.5	Added	completion date of any Change in Service. Deleted reference to transfer of ownership form. New
		owners must submit a new registration form, required
		Safety Data Sheets, and proof of Financial
		Responsibility. Forms must be submitted within 72
		hours of ownership change. Previously forms must be
62 Part A, Section 4.4.1	Amended	submitted within 30 days of ownership change.
63 Part A, Section 4.4.3	Amended	Deleted reference to "ownership transfer form" as such does not exist.
65 Fait A, Section 4.4.5	Amended	does not exist.
64 Part A, Section 4.5.2	Amended	added "Feb 1 of each year thereafter For clarification
		Table expanded to clarify registration fee schedule by
65 Part A, Section 4.5.3	Amended	tank size and substance stored
		Clarify that registration fees are no longer assessed for Permanent Closure in Place or Removal or Permanent
		Change in Contents only after the O/O has complied
		with the applicable requirements in the Regulations
		and site assessment soil samples have been received
66 Part A, Section 4.5.4	Amended	by the Department.
		The initial AST registration fee will not be assessed
CZ Dort A. Continue 4.5.5	الماماد يا	until the calendar year following the year in which the
67 Part A, Section 4.5.5.	Added	New AST installation is completed Changed required prior notification from 10 days to 30
68 Part A, Section 4.6.1.	Amended	days for retrofit/upgrade work
,		, , , , , , , , , , , , , , , , , , , ,
		Added standard that once written approval for a
69 Part A, Section 4.6.2	Amended	Retrofit or Upgrade is received the work may proceed.
		Added standard that if Retrofit or Upgrade work has
70 Part A, Section 4.6.3	Amended	not commenced within one year the appproval will expire and an extension must be requested.
70 IT ATT A, OCCIOIT 4.0.3	Amended	Added requirement that retrofit or upgrade may
		proceed after Dept approves. The Dept must issue a
		formal letter with 30 days of the Dept's receipt of the
71 Part A, Section 4.6.4	Added	notification.

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72	Part A, Section 5.1.1	Amended	Clarified wording
	Part A, Section 5.1.1	Amended	Clarified wording
73	Part A, Section 5.2.1	Amended	
			The Department must provide a justification for denial,
_ ,	Darl A. Oarella . F.O.4	A In I	approval or approval with conditions of an alternative
	Part A , Secction 5.3.1	Amended	procedures request.
	Part A, Section 5.4	Deleted	included in amendments to Part A , §5.3
	Part A, Section 6.1.1.3	Added	Add authority to take photographs at a site visit
	Part A, Section 7.2	Deleted	Moved to Part E
78	Part A, Section 8	Deleted	Moved to Part E
79	Part A, Section 9	Renumbered as Section 8	
			Require tanks to have NFPA hazard label, name of
			chemical stored, registration from ID#, Empty or
80	Part A, Section 10	Renumbered as Section 9	Permanently closed, as applicable.
00	Tarra, occion to	Teriambered as dection 5	Termanently closed, as applicable.
			added new sections 9.1.2 and 9.2.2 and 9.3.2. to clarify
81	Part A, Section 9	Amended	wording.
			Added a section for tanks installed or brought into
			service after the February 1, 2006 date for compliance
82	Part A, Section 9.4.2.	Added	with labeling as this date has passed.
			Requirement that ASTs that are Permanently Closed in
			accordance with the Regulations be labeled as such
			including the date of closure. For tanks already
			Permanently Closed, labeling would be required within
			90 days of the effective date of the revised
83	Part A, Sections 9.5.1.and 9.5.2	Added	Regulations.
84	PART B	radea	1.09diationo.
	Part B, Table of Contents Section 9	Amended	
00	Tart B, Table of Contents Cection 5	Amenaca	Table expanded to clarify construction fee schedule by
86	Part B, Section 1.1.9 moved to 1.2.1	Amended	tank size and substance stored
00	Tart B, Occilor 1.1.5 moved to 1.2.1	Amenaca	Added requirement that AST and all equipment be
			compatible with the substance stored. Clarification as
0.7	Part B, Section 1.1.9	Added	referenced standards used already required this.
07	Part B, Section 1.1.9	Added	Set minimum distances from Public or Industrial wells
	D 10 0 11 1110		for installation of new ASTs to mirror Div of Water
88	Part B, Section 1.1.10	Added	Regulations
			Set minimum distances from Private wells for
		l	installation of new ASTs to mirror Div of Water
89	Part B, Section 1.1.11	Added	Regulations
			Changed requirement that metallic Field-Constructed
			ASTs installed after the effective date of these
			Regulations be inspected and tested in accordance
			with the design standard(s) under which the AST was
90	Part B, Section 2.1.12	Amended	constructed as applicable, instead of API 650.
91	Part B, Section 3.1.4.3	Amended	Clarified wording from "leakage" to "Leak"
			Added the word "All" at the beginning of 5.1.1 and
92	Part B, Section 5.1.1	Amended	"including double bottom tanks" to clarify
			Changed "Level 3" to a NACE Cathodic Protection
			Specialist Certification to be consistent with current
93	Part B, Section 5.2.1.	Amended	terminology
	,	1	····································

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	, ,	_	Changed to :Cathodic Protection Systems shall be
			installed at the time of installation or upgrade of a
			metallic AST and shall be operational at the completion
			of the installation or upgrade, or other schedule
	Dort D. Continue F 2.4	A a d a -d	. •
94	Part B, Section 5.3.1.	Amended	approved by the Dept.
			Clarified that testing must be done in accordance with
			Part C, Section 5, and deleted discussion of repair
95	Part B, Section 5.3.5	Amended	since they appear in Part C, Section 5.
			Deleted "after installation of a Sacrificial Anode
			System" as this applies to Impressed Current also and
			the wording is redundant with the remaining wording in
96	Part B, Section 5.3.5	amended	5.3.5.
97	Part B, Section 6.1.10	Amended	Added the word "any" prior to Regulated Substance
	Part B, Sections, 6.3.1.2.2., 6.3.1.2.3.		,
98	and 6.3.1.2.4	Amended	Updated Referenced Standards to current titles
			Changed "Level 3" to a NACE Cathodic Protection
			Specialist Certification to be consistent with current
aa	Part B, Section 6.5.1.2.	Amended	terminology
	Part B, Section 6.7.1.	Amended	clarified wording
	Part B, Section 6.7.1.	Amended	clarified wording
	*		
102	Part B, Section 7	Amended	Section now includes Spill Containment
	Part B, Section 7.1.5 (moved from Part		
103	B, Section 8.1.5)	moved	Moved from Part B, 8.1.5. to Part B 7.1.6
			Added requirement for transfer areas for ASTs
			installed after the next effective date of the Regulations
			have specific volume requirements (110% of the
			volume of the largest compartment of the largest
104	Part B, Section 7.1.6	Added	vehicle that may be utilized.
			added to dike capacity "regardless of engineering
105	Part B, Section 7.2.1.3.	Amended	controls or design"
	,		Added the same requirements for secondary
			containment for curbing/paving as are currently stated
			for other forms of 2nd containment. "110% of the
			volume of the largest AST or 100% of the volume of
			the largest AST plus six inches of freeboard for
400	Dort D. Continu 7.0.04	A a d a -d	precipitation, regardless of engineering controls or
106	Part B, Section 7.2.2.1.	Amended	design."
			Added specific requirements for the amount of Leaked
			Regulated Substance that must be contained in a vault
			to be consistent with other forms of 2nd containment.
			and shall have a minimum capacity to contain 110% of
107	Part B, Section 7.2.3.1.	Amended	the volume of the largest AST."
			Added the same requirements for secondary
			containment for double walled ASTs as are currently
			stated for other forms of 2nd containment. "of
			freeboard for precipitation, regardless of engineering
108	Part B, Section 7.2.4.1.3.	Amended	controls or design."
	, -		Section deleted. External liner now defined in
109	Part B, Section 7.2.5.1.	Deleted	Definitions section.
1.55			Changed "lining materials' to defined term "External
110	Part B, Section 7.2.5.1	Amended	Liners"
110	r art D, Occitor 1.2.J. I	AHEHUEU	
	Dort D. Continu 7.0.5.0	Amandad	Changed "lining materials' to defined term "External
111	Part B, Section 7.2.5.2	Amended	Liners"
	 	1	Clarification: statement that overfill equipment must be
112	Part B, Section 8.1.2	Added	installed on all new ASTs

List of Proposed Changes AST Regulations April 2016

	T	Proposed Changes AST Reg	С
	A	Ь	· ·
140	Dark B. Oarthau O.A.O.	A 1.1. 1	Clarification: statement that overfill equipment must be
	Part B, Section 8.1.3	Added	installed on all reactivated ASTs
114	Part B, Section 8.1.5	moved	Moved to Part B, Section 7.1.5
			Changed overfill prevention and measuring device
			shall be "indepent of each other" to "shall operate
115	Part B, Section 8.1.9	Amended	indepentenly" of each other.
			Added "Visual methods cannot be utilized as the sole
116	Part B, Section 9.1.2	Amended	method of Release Detection"
			Deleted "other than visual" as visual RD methods are
117	Part B, Section 9.1.3	Amended	not allowed as the sole method of RD
			Added standard STI SP031 to repair standards.
			Standard not written at time of last regulation
118	Part B, Section 10.1.1.	Added	amendments.
			All statements of "within x date of the effective date of
119	Part B, Section 11	Amended	the Regulations" changed to the actual calendar date
	Part B, Section 11.1.5. and 11.1.6	acceptable internal liner	Amended to define acceptable internal liner
120	i ait b, occioii i i i i o allu i i i i o	acceptable internal line	Within 1 year of the new effective date of the
1			Regulations, all ASTs, piping appurtenances and 2nd
1,04	Dart D. Caption 44.4.0	A -1 -11	containment must be compatible with the substance
	Part B, Section 11.1.9	Added	stored.
	Part B, Section 11.3.1	Amended	changed notification from 10 to 60 days
	Part B, Section 11.3.2	Amended	changed notification from 10 to 60 days
	Part B, Section 11.4.1	Amended	changed notification from 10 to 60 days
125	Part B, Section 11.4.2	Amended	changed notification from 10 to 60 days
			All statements of "within x date of the effective date of
126	Part B, Section 12	Amended	the Regulations" changed to the actual calendar date
	Part B, Section 12.1.2.1;		Changed "any" to "the" to be consistent with 12.1.2.4.
127	12.1.2.2.;12.1.2.3.	Amended	and 12.1.2.5.
			Clarified wording for activities that must take place
			when an AST is taken out of service for greater than 18
128	Part B, Section 13.1.3	Amended	months
			Added requirement that OOS AST that is not empty
			must be in compliance with the AST Regulations as
129	Part B, Section 13.1.4	Added	applicable.
			Added requirement that OOS AST that is empty is not
			required to do inspection, monitoring and testing while
130	Part B, Section 13.1.5.	Added	empty and OOS
	,		Added clarification that an AST that is OOS, empty and
			has had a site assessment performed is considered to
131	Part B, Section 13.1.7	Added	be permanently closed.
			Added clarification that an AST that is used only
1			periodcially, such as seasonal use, are not OOS, even
132	Part B, Section 13.1.8	Added	when the tank is not storing RS.
	Part B, Section 13.2.1	Deleted	
	Part B, Section 13.2.1	Amended old 13.2.2	changed type of notification form
104		7.1.71011000 010 10.2.2	Empty and OOS ASTs must be tested and inspected
1			prior to being placed back in service. Removed 1 year
125	Part B, Section 13.2.2	Amended old 13.2.3	OOS time frame
133	1 art D, Occitori 10.2.2	/ Milenaca dia 13.2.3	ASTs OOS before June 11, 2004 must comply with
1			
120	Dort D. Coction 12.2.2	Addad	new tank standards before being placed back into
130	Part B, Section 13.2.3	Added	Service
400	Don't D. Continue 40.0.0.4. II. 40.0.0.4	Deleted	Deleted. Testing and inspection requirements in new
1738	Part B, Section 13.2.3.1. thru 13.2.3.4	Deleted	13.2.2.
100			
	Part B, Section 14 Title Heading	Amended	Added to Section Heading: Retrofit, Upgrade, repair or maintenance

_	A	В	С
	A	D	Deleted original wording. Simplified to a requirement
			that Owners and Operators must notify the Dept of any
			evidence of soil or groundwater contamination
			regardless of tank activity being performed, and comply
140	Part B, Section 14.1.1	Amended	with all corrective action requirements.
			Added Retrofit, Upgrade, repair and maintenance to
			activities that may require a site assessment be
141	Part B, Section 14.2.	Amended	performed.
			C'A A
140	Dort D. Cootion 14.2		Site Assessment requirements - Deleted Change in Service from title
142	Part B, Section 14.2		Clarifed that site assessment must be performed when
			soil is excavated during retrofit, upgrade, repair or
143	Part B, Section 14.2.1.4	Amended	maintenance
	Part B, Section 14.2.2.3	Deleted	maintenance
	,		Site Assessments shall be performed in accordance
			with AST Site Assessement Guidance or other
145	Part B, Section 14.2.2.4	Added	approved procedures.
			Site Assessment cannot be performed without prior
146	Part B, Section 14.2.3	Added	writtten approval from the DNREC-TMS
			Analytes must be selected based upon all Regulated
1,17	Dort D. Continu 44.0.4	^ d d o d	Substances stored in the tank over its lifetime. Lab
147	Part B, Section 14.2.4	Added	methods must be approved by the DNREC-TMS. Samples must be submitted to a lab that is certified to
1⊿Ω	Part B, Section 14.2.5	Amended	perform the required analyses.
140	1 art 5, 0000011 17.2.0	/ WHICHOCA	ponomi no required analyses.
			Samples must obtained from locations with the highest
149	Part B, Section 14.2.6	Amended	suspected concentration of chemicals of concern.
	Part B, Section 14.2.7	Amended original 14.2.6	Site assesment due within 90 days, instead of 30 days.
151	Part B, Section 16.1.3	Amended	Clarifed by adding words "Site Assessment"
1			No decrease to a strong and the Boundary
1,50	Dont D. Continue 4C.C.	A ma a m d a d	No changes in actions required to Permanently Close
	Part B, Section 16.2 Part B, Section 16.2.1.1	Amended Deleted	an AST; wording changed for ease of understanding
	Part B, Section 16.2.1.1	Deleted	
134	Part B, Section 16.2.1.1 (original	Dolotou	
155	16.2.1.3)	Amended	Amended wording
-55	- ··· ··· /		New section; requires securing of AST to prevent
156	Part B, Section 16.2.1.2	Added	unathorized access
			New section; Empty the AST and Piping and retain
157	Part B, Section 16.2.1.3.	Added	documentation of disposal for 3 years
			New section. Cross reference labeling with Part A,
158	Part B, Section 16.2.1.4	Added	Section 9.5
			Added a Continuo and Continuo Latin
			Added a Section specifying what is required to return to
			service an AST which was Permanently Closed prior to the effective date of the AST Regs. I.E. It has to be
			treated as a New AST with payment of construction fee
			and submission of installation documentation and must
159	Part B, Section 16.3	Added	meet new tank requirements.
160			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
161			
		1	1

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		Measuring gauges must be capable of measuring the
		level in the AST over the entire operating range as
		opposed to the full range of the AST. The full range of
		the AST often cannot be measured, the operating
162 Part C, Section 1.1.1.1.	Amended	range can.
		All statements of "within x date of the effective date of
163 Part C, Section 1.1.2	Amended	the Regulations" changed to the actual calendar date
100 1		general general control control general genera
		All statements of "within x date of the effective date of
164 Part C, Section 2.1.1	Amended	the Regulations" changed to the actual calendar date
1041 art 0, 0001011 2.11.1	7 illionaea	deleted reference to Part A,Section 8 as that section
		has been deleted. Added reporting and C/A
		requirements must be followed anytime there is
165 Part C, Section 2.1.3	Amended	evidence of a Leak or Release. "Leak" added.
165 Fart C, Section 2.1.3	Amended	evidence of a Leak of Release. Leak added.
		All statements of lividalis and the of the office live later of
100 5 10 0 1 0 10	A 1 . 1	All statements of "within x date of the effective date of
166 Part C, Section 3.1.2	Amended	the Regulations" changed to the actual calendar date
		The gauge or measuring device required in Part B,
		section 8 must be calibrated, tested, operated and
		maintained in accordance with manufacturer's
167 Part C, Section 3.1.5.	Added	specifications.
		Manufacturer's instructions and performance claims for
		the measuring device or gauge must be retained for
168 Part C, Section 3.1.6.	Added	the life of the AST.
		If the manufacturer of the gauge or measuring device
		cannot be determined the gauge or measuring device
169 Part C, Section 3.1.7.	Added	must be calibrated to 1% of the volume of the AST.
211111		The overfill protection system must be calibrated,
		tested, operated and maintained in accordance with
170 Part C, Section 3.1.8.	Added	manufacturer's specifications.
77 01 41 0, 0001011 0.1.0.	710000	Manufacturer's instructions and performance claims for
		the overfill protection system must be retained for the
171 Part C, Section 3.1.9	Added	life of the AST.
17 IF all O, Section 3.1.8	Audeu	IIIG UI IIIG AUT.
		All statements of "within x date of the effective date of
170 Part C. Caption 4		
172 Part C, Section 4		the Regulations" changed to the actual calendar date
		Options for testing piping in addition to API570 were
		added including "in accordance with manufacturer's
		specifications or a method approved in writing by the
173 Part C, Section 4.1.2.	Amended	Department"
		Any alternative method of risk based testing schedule
		must be approved in writing by the Dept. In no case
174 Part C, Section 4.1.3.	Amended	shall test intervals exceed 10 years.
		All statements of "within x date of the effective date of
175 Part C, Sections 5.1.3 and 5.1.4		the Regulations" changed to the actual calendar date
		Changed monitoring frequency of Impressed Current
		CP Systems from 63 days to 31 days and repairs to be
176 Pact C, Section 5.2.1.	Amended	made within 60 days.
,		Impressed Current CP systems that are not operating
		as required must be repaired or replaced within 60
177 Part C, Section 5.2.3	Amended	days - changed from 90 days to 60 days.
1171 at 0, 000tion 0.2.0	Amondo	Changed monitoring frequency of Sacrificial Anode CP
		Systems from 63 days to 31 days and repairs to be
179 Port C. Soction 5.2.4	Amandad	1 '
178 Part C, Section 5.3.1	Amended	made within 60 days.

	Λ	Г	
	Α	В	Sacrificial Anode CP systems that are not operating as
			required must be repaired or replaced within 60 days -
179	Part C, Section 5.3.2	Amended	changed from 90 days to 60 days.
	1 411 0, 0001011 0.0.2	7 tilloridod	Changed NACE Level 3 corrosion specialist to NACE
180	Part C, Section 5.4.1	Amended	CP Specialist to be consistent with NACE
			Changed NACE Levels to CP Technician, Technologist
181	Pact C, Section 5.4.2	Amended	or Specialist to be consistent with NACE
182	Part C, Section 6.1.1	Amended	Added "only one standard shall be applied"
			All statements of livithin and the of the official and the of
102	Part C, Section 6.1.3 and 6.1.4	Amended	All statements of "within x date of the effective date of
103	ran C, Section 6.1.3 and 6.1.4	Amended	the Regulations" changed to the actual calendar date
			All statements of "within x date of the effective date of
184	Part C, Section 6.2.6	Amended	the Regulations" changed to the actual calendar date
10.			External inspections shall at a minimum follow the
			"latest approved" edition changed to "most recent
			referenced" edition of national recognized codes
			Added "as listed in Part A, Section 3" to address public
185	Part C, Section 6.3.1	Amended	comment.
186	Part C, Section 6.3.3	Amended	Updated Standards Titles
100	1 41 0, 0001011 0.0.0	rinonada	External inspections shall at a minimum follow the
			"latest approved" edition changed to "most recent
			referenced" edition of national recognized codes
187	Part C, Section 6.4.1	Amended	Added "as referenced in Part A, Section 3"
188	Part C, Section 6.4.2.	Amended	Updated Standards Titles
			All statements of lividhin violate of the official series of
100	Part C, Section 6.4.3	Amended	All statements of "within x date of the effective date of the Regulations" changed to the actual calendar date
109	Fait 6, Section 6.4.3	Amended	the Regulations changed to the actual calendar date
			Alternative inspection intervals may be utilized only for
			ASTs with 110% secondary containment dikes and a
			continuous method of leak detection. The interval
190	Part C, Section 6.4.6.	Amended	between internal inspections cannot exceed 20 years.
			Added internal inspection reports must be submitted to
191	Part C, Section 6.4.7	Amended	the Dept. "within 30 days of inspection completion"
1,00	Don't C. Cootion C.4.3		Stipulates exactly what must be included in an internal
192	Part C, Section 6.4.8	Added	inspection report. The wording was amended to remove the option for
	Part C, Section 6.4.8.3, 7.4.8.3.,		rexternal inspection" as the section refers only to
193	8.1.7.2.1.3.	Amended	internal inspections.
133			Shop-Fabricated ASTs can use API 653, or STI-SP00a
			or NACE RP0294 for inspection criteria. Added "only
194	Part C, Section 7.1.1	Amended	one standard shall be applied"
			All statements of "within x date of the effective date of
195	Part C, Section 7.1.3 and 7.1.4	Amended	the Regulations" changed to the actual calendar date
100	Part C. Saction 7.2.2	Amandad	Undated Standards Titles
196	Part C, Section 7.2.2	Amended	Updated Standards Titles
			All statements of "within x date of the effective date of
197	Part C, Section 7.2.6	Amended	the Regulations" changed to the actual calendar date
198	Part C, Section 7.3.3	Amended	Updated Standards Titles

	Α	B	C
100			-
199	Part C, Section 7.4.1.	Amended	Updated Standards Titles All statements of "within x date of the effective date of
			the Regulations" changed to the actual calendar date.
200	Part C, Section 7.4.3	Amended	Updated Standards titles.
			Stipulates exactly what must be included in an internal
201	Part C, Section 7.4.8.	Added	inspection report.
202	Part C, Section 8.1.1.1	Amended	Added "only one standard shall be applied"
203	Part C, Section 8.1.2.2	Amended	Updated Standards Titles
203	1 4.1 0, 000110110.1.2.2	7 H11011404	opeatod otalidalido fillos
			All statements of "within x date of the effective date of
204	Part C, Section 8.1.4.2.2	Amended	the Regulations" changed to the actual calendar date
205	Part C, Section 8.1.5.2	Amended	Updated Standards Titles
000	Dart C. Coation 2.4.5.0	A ma a m al a al	All statements of "within x date of the effective date of
206	Part C, Section 8.1.5.6	Amended	the Regulations" changed to the actual calendar date
207	Part C, Section 8.1.7.2.	Added	Stipulates exactly what must be included in an internal inspection report.
	Part C, Section 8.1.7.3	New numbering	
	Part C, Section 8.1.8	Amended	Corrected numbering by level
	Part C, Section 8.1.8.1	Amended	Corrected numbering by level
211	Part C, Section 8.2.1.5.1 PART D	Amended	Added Standards title
212	FARID		"financial assurance" changed to "financial
213	Part D, All Sections	Amended	responsibility" throughout section for consistency
			Changed wording from "annual basis" to "every 12
214	Part D, Section 2.1.2.	Amended	months" to clarify.
215	Part D, Section 2.1.4	Added	O/O must send copy of valid FR mechanism to the Dept within 30 days of confirmation of a release
213	1 art D, Occitori 2.1.7	71000	No regulated substance may be placed in an AST
216	Part D, Section 2.1.5	Added	without proof of valid FR
217	Part D, All Sections	Amended	Appendix changed to Form throughout Part D
			Requires the Owner or Operator to notify the Dept of
218	Part D, Section 16.1.2.	Amended	cancellation of FR within 10 days.
			When an Owner or Operator changes from one FR mechanism to another the Dept must receive the
			required documentation of the new FR mechanism
219	Part D, Section 16.1.3	Added	within 10 days of the change.
			If a provider cancels or fails to renew FR, the O/O must
000	Don't D. Coestion 47.4.0	۸ ما ما م	submit proof of alternative FR to the Dept in
220	Part D, Section 17.1.2	Added	accordance with the requirements of Part D.
			When an Owner or Operator fails to obtain alternative
			FR in the event of cancellation or nonrenewal the O/O
221	Part D, Section 17.1.3.	Added	must provide notice to the Dept.
			If liability insurance is cancelled or non-renewed the
222	Part D, Section 17.1.4	Added	insurer must notify the Dept within 15 days after cancellation or non renewal.
222	1 art 5, 000dolf 17.1.T	7.14404	odification of non-tonowal.
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			When Insurance is the FR mechanism it may be
			cancelled after a claim has been submitted, not when
000	Part D, Section 19	Amended	

4/26/2016

List of Proposed Changes AST Regulations April 2016

List of	T	
A	В	С
224 Part D, Section 20.1.2	Amended	"assurance" changed to "financial responsibility"
		Chart added to each form to list all ASTs covered by
225 Part D, All Forms	Amended	that particular FR mechanism
226 Part D, Form A, Alt 1, #13	Amended	Add wording inadvertenly omitted
227 Part D, Form A, Alt II, #20	Amended	Add wording inadvertenly omitted
228 Part D, Form B	Amended	Word "Delaware" deleted; error
·		·
229 Part D, Form B, #9	Amended	Title added to blank; inadvertently omitted
		The insurance company must notify DNREC of any
		cancellation or non-renewal of an AST insurance
230 Part D, Form C and D	Added	policy.
231 Part D, Form E	Amended	Part D, Section 15 corrected to Part D, Section 18
,		Deleted Section 2 - applicable only to standby trust
232 Part D, Form G	Amended	agreements. Renumbered all successive sections.
2321 art B, 1 omi G	Amended	removed language appropriate only to standby trust
000 D. 4 D. F 0	A	
233 Part D, Form G	Amended	fund from trust fund form
		Added reference to new Section 18 to clarify
234 Part D, Form G, Section 12	Amended	designated signers.
		Added a section requiring a list of the persons
		designated by the Grantor to sign orders, requests and
235 Part D, Form G, Section 18	Amended	instructions to the trustee.
2331 art D, 1 orm G, Geotion 10	Amended	
DOOD TO THE OUT OF THE OUT OUT OF THE OUT OUT OF THE OUT OF THE OUT OUT OUT OUT OF THE OUT OF THE OUT	A	Added reference to new Section 19 to clarify
236 Part D, Form H, Section 13	Amended	designated signers.
		Added a section requiring a list of the persons
		designated by the Grantor to sign orders, requests and
237 Part D, Form H, Section 19	Added	instructions to the trustee.
		Deleted incorrect wording of "minimum amount
		required of \$1 million" and changed to "minimum
238 Part D, Form K	Amended	,
-		amount required in Part D, Section 3.
239 Part D, Form M	Amended	Part D, Section 15 corrected to Part D, Section 18
240 Part D, Form N	Amended	Part D, Section 15 corrected to Part D, Section 18
		(3) second paragraph deleted. Typographical error in
241 Part D, Form O	Amended	original Regulations.
242 5 45 5		
242 Part D, Form O	Amended	changed "tank" to "AST" for consistency
Part E		
244 Entire Part Deleted and Replaced		
245 Part E, Section 1.1	Added	Leaks Inside Secondary Containment
		No Person shall knowingly allow any Leak of a
		Regulated Substance from an AST into Secondary
246 Part E, Section 1.1.1	Added	Containment to continue.
2401 dit E, Occilon 1:1:1	Added	Containment to continue.
		A Leak of a Regulated Substance inside Secondary
		Containment in any quantity that cannot be cleaned up
		within (7) days shall be reported to the Tank
		Management Section as soon as possible, but in no
		instance shall reporting exceed (7) seven days form
047 Dark F. Oarking 4.4.0	A -1 -11	the time of discovery. Reporting may be made in
247 Part E, Section 1.1.2	Added	person or by telephone or by electronic mail.
		Documentation of the Leak and the calculations of how
		the Leak amount was determined shall be maintained
		by the Owner and Operator at the Facility for the
248 Part E, Section 1.1.3	Added	operational life of the AST.
2.51 arc 2, 3000011 1.1.0	, 14404	Actions to prevent a reoccurrence of the Leak and
		·
		actions to mitigate evidence of the Leak shall be
		completed within (30) thirty days. These actions shall
249 Part E, Section 1.1.4	Added	include but are not limited to:

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			1.1.4.1 Repairing or replacing defective
	Part E	Added	equipment, or;
251	Part E	Added	1.1.4.2 Modifying operating procedures, or;
252	Part E, Section 1.1.4.3	Added	Retraining employees.
253	Part E, Section 1.1.5	Added	Evidence of a Leak on Secondary Containment surfaces other than soil, shall be mitigated by mechanical and/or chemical means that do not compromise the impermeability of the Secondary Containment and which permit potential future Leaks to be readily discernible from evidence of previous Leaks, in accordance with PART E.1.1.4.
			Evidence of a Leak on Secondary Containment surfaces comprised of soil, that cannot be eliminated by surficial scraping, shall be eliminated by excavating all impacted soils or a means by which a new stain is easily detectable and which does not compromise the impermeability of the Secondary Containment, in accordance with PART E.1.1.4. Any area that is excavated shall be backfilled with a material of equal or
254	Part E, Section 1.1.6	Added	superior impermeability.
255	Part E, Section 1.1.6.1	Added	The Department must be notified in person or by telephone, five (5) days in advance of any excavation activities within Secondary Containment.
	Part E, Section 1.1.6.2 Part E, Section 2	Added Added	Staining that extends through the impermeable Secondary Containment surface is considered a Release and Hydrogeologic Investigation must be completed in accordance with PART E. 4.2. Reporting Requirements
258	Part E, Section 2.1	Added	Indicated Releases from ASTs
259	Part E, Section 2.1.1	Added	Indicated Releases are signs that an AST, or the Secondary Containment are failing or could potentially fail to contain a Regulated Substance. Indicated Releases are Releases that are not observable and are not directly attributable to another source Observable Releases must refer to PART E.4.2. Indicated Releases include, but are not limited to, the following:
260	Part E, Section 2.1.1.1	Added	Stained soils or soils that emit characteristic odors of Regulated Substance compounds which are exposed during activities including but not limited to digging, boring or excavation activities, retrofit of ASTs, Removal of an AST or collection of soil samples around an AST that is Permanently Closed In Place, or results from an Phase I or Phase II environmental Site Assessment; or

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	Λ.	5	Water from supply wells, public or private, that exhibit a
			decrease in water quality, which is shown by
			subsequent analysis to result from the presence of a
261	Part E, Section 2.1.1.2	Added	Regulated Substance; or
	Don't F. Continue 0.4.4.0	A -1 -1 -1	The appearance of characteristic odors of a Regulated
262	Part E, Section 2.1.1.3	Added	Substance in basements or other enclosed spaces; or
262	Part E, Section 2.1.1.4	Added	The appearance of a sheen on a surface water body; or
203	rait L, Section 2.1.1.4	Added	O
			The appearance of a sheen or measurable NAPL in a
264	Part E, Section 2.1.1.5	Added	supply well, monitoring well, or observation tube; or
265	Part E, Section 2.1.1.6	Added	Failure of a Tank, Piping or vapor recovery test; or
			A laboratory report that indicates a sample collected
			from or near an AST excavation, soil boring, monitor
			well or observation tube contains a Regulated
266	Part E, Section 2.1.1.7	Added	Substance; or
			Notification from the State Emergency Prevention and
			Response Section or another State or Federal agency
007	Det E. Ordina 0.4.4.0	A 1.1. 1	of the discovery of a Release of uncontained
267	Part E, Section 2.1.1.8	Added	Regulated Substances or compounds; or
			Documentation on a tank inspection report that the
268	Part E, Section 2.1.1.9	Added	AST integrity may have been compromised includes but is not limited to:
269	Part E	Added	2.1.1.9.1 Holes in the AST; or
070	Dort E. Cootion 2.4.4.0.2	٨٩٩٥٩	Thinning of AST structural material below the minimum
270	Part E, Section 2.1.1.9.2	Added	design standard; or
271	Part E, Section 2.1.1.9.3	Added	Cracks in welds or steel plates.
			Abnormal operating conditions include but are not
272	Part E, Section 2.1.1.10	Added	limited to the following:
070	Don't E. Continue 0.4.4.0.4	A -1 -1 -1	The sudden loss of product from any portion of the
2/3	Part E, Section 2.1.1.10.1	Added	AST;
274	Part E, Section 2.1.1.10.2	Added	Inventory control discrepancies over a consecutive two month period;
214	1 art E, 0000011 2.1.1.10.2	/ lauca	monut portou,
			A signal from any release detection device or method
275	Part E, Section 2.1.1.10.3	Added	that indicates a Release may have occurred;
276	Part E, Section 2.1.1.10.4	Added	The unexplained presence of water in the AST;
			Fridamen of a Delegative Co. Dec. 1911 1911
077	Dowt F. Continue 2.4.4.40.5	\	Evidence of a Release of a Regulated Substance
2/7	Part E, Section 2.1.1.10.5	Added	noted during a routine inspection.
278	Part E, Section 2.2	Added	Reporting Requirements for Indicated Releases
			Any indication of a Release of a Regulated Substance
			from an AST that was not witnessed, is not
			immediately quantifiable, and has impacted soil,
			surface water, or groundwater, and is discovered by
			any Person, including but not limited to environmental
			consultants, environmental contractors, utility companies, financial institutions, real estate transfer
			companies, infancial institutions, real estate transfer companies, or AST Owners or Operators shall be
279	Part E, Section 2.2.1	Added	reported within 48 hours to:
	<u></u>		- Sported Maint to Hodio to:

4/26/2016

The DNREC Tank Management Section by calling 302- 395-2500 during normal business hours, which are 8am to 4pm, Monday through Friday, excluding state holidays or emergency state office closures. Reporting to the Tank Management Section does not release any Person from complying with the requirements of 7 Del. C., Chapter 60 and the Regulations promulgated there under as amended and if an imminent threat to human health, safety or the environment exists. 2.2.1.2 If the phone numbers listed in these Regulations are not valid it is the responsibility of the Owner and Operator to take all reasonable steps to ascertain a valid phone number. 281 Part E Added Added Added The DNREC Tank Management Section by calling 302- 302-396-2000 and company the chapter of the policy of the Owner and Operator to take all reasonable steps to ascertain a valid phone number.		l A	В	С
395-2500 during normal business hours, which are 8am to 4pm, Monday through Friday, excluding state holidays or emergency state office closures. Reporting to the Tank Management Section does not release any Person from complying with the requirements of 7 Del. C., Chapter 60 and the Regulations promulgated there under as amended and if an imminent threat to human health, safety or the environment exists. 2.2.1.2 If the phone numbers listed in these Regulations are not valid it is responsibility of the Owner and Operator to take all reasonable steps to ascertain a valid phone number. 281 Part E Added phone number. 2.2.2 The Department may require that the AST be taken Out of Service and Emptide until the cause of the Indicated Release is determined, if the Department deems such action necessary to protect human health, safety or the environment. 282 Part E Added safety or the environment. 2.2.3 Abnormal operating conditions, mechanical abnormalities, or equipment issues that indicate that a Release of a Regulated Substance has occurred, may be occurring, or has the potential to occur must be investigated in accordance with PART E. Section 3. 284 Part E Added 2.3 Reporting Requirements for Releases Owners and Operators shall not knowingly allow any Release of a Regulated Substance from an AST to continue. Owners and Operators shall take immediate action to contain any Release and to immediately identify and mitigate fire, explosion and vapor hazards. Any Release of a Regulated Substance from an AST to continue. Owners and Operators shall take immediate extinct to contain any Release and to immediately identify and mitigate fire, explosion and vapor hazards. Any Release of a Regulated Substance from an AST to contain any Release so as to minimize the environmental impact of the Release and to immediately identify and mitigate fire, explosion and vapor hazards. Any Release of a Regulated Substance from a Position of the Reporting of a Discharge of a Pollutant or an Air Contaminant, as amended at the side		, ,		
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consultants or contractors, utility companies, financial institutions or real estate transfer companies, shall be				
286 Part E, Section 2.3.2 Added reported within 24 hours to:				<u> </u>
	286	Part E, Section 2.3.2	Added	reported within 24 hours to:
The Department's 24-hour Release Hot Line by calling				The Department's 24-hour Release Hot Line by calling
, ,	207	Part E. Section 2.3.2.1	Added	800-662-8802, and

	List of Proposed Charles As	-
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		The DNREC Tank Management Section by calling 302-
		395-2500, during normal business hours, which are
		8am to 4pm, Monday through Friday, excluding state
288 Part E, Section 2.3.2.2	Added	holidays or emergency state office closures.
		If the phone numbers listed in these Regulations are
		not valid it is the responsibility of the Owner and
		Operator to take all reasonable steps to ascertain a
289 Part E, Section 2.3.2.3	Added	valid phone number.
		Owners and Operators shall immediately contain the
		Release and shall complete the Release response,
		investigation and Remedial Action requirements of
290 Part E, Section 2.3.3	Added	PART E.Section 7. as required.
		Owners and Operators shall comply with the release
		notification requirements of any and all state, federal or
291 Part E, Section 2.3.4	Added	municipal agencies.
2011 art 2, 0000011 2.0.4	, 1000	maniopai agonoloo.
		Any Release of a Regulated Substance in a quantity
		less than the reportable quantity specified in the
		regulations promulgated pursuant to Title 7 Del. C.,
		Chapter 60, §6028, the Delaware Regulations
		Governing the Reporting of a Discharge of a Pollutant
		or an Air Contaminant, as amended, shall be
		documented at the time of discovery on the routine in-
		service inspection report. If the commencement of
		cleanup activities cannot begin within 24 hours or
		cannot be completed within seven (7) days the Tank
		Management Section shall be notified in person or via
		fax, electronic mail, or by telephone on the eighth day,
292 Part E, Section 2.3.5	Added	and the requirements of PART E.4.2 shall apply.
	Added	
293 Part E, Section 3	Added	Indicated Release Investigation Requirements General Requirements for Indicated Release
204 Part E Saction 2.4	٨٨٨٨	·
294 Part E, Section 3.1	Added	Investigation
		If at any point in the Indicated Release Investigation it
		is determined that a Release of a Regulated Substance
		from an AST in excess of the reportable quantities
		specified in the regulations promulgated pursuant to 7
		Del. C., Chapter 60, §6028, the Delaware Regulations
		Governing the Reporting of a Discharge of a Pollutant
		or an Air Contaminant, as amended, has occurred, the
		Department must be notified immediately and Release
		Response actions in accordance with PART E.4.2,
295 Part E, Section 3.1.1	Added	must begin.
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		Unless Remedial Action is immediately initiated in
		accordance with the requirements of PART E.6.1.3,
		Owners and Operators shall investigate and confirm,
		within seven (7) days, any indication of a Release of a
		Regulated Substance including but not limited to those
296 Part E, Section 3.1.2	Added	listed in PART E.2.1.1.
297 Part E, Section 3.2	Added	Indicated Release Investigation Procedures

	Α	roposed Changes AST Reg	C C
	Λ	<u> </u>	Upon discovery of an indication of a Release Owners
298	Part E, Section 3.2.1	Added	and Operators shall:
200	Part E, Section 3.2.1.1	Added	Within twenty-four (24) hours initiate an investigation to determine the cause of any abnormal operating condition; and
299	T art E, Geotion 3.2.1.1	Added	Condition, and
300	Part E, Section 3.2.1.2	Added	3.2.1.2 Within twenty-four (24) hours initiate an investigation, for completion within seven (7) days, to determine the presence or absence of a Release by:
301	Part E, Section 3.2.1.2.1	Added	Conducting inspection and testing of the AST and Secondary Containment as necessary to conclusively determine the presence or absence of a Release; or
			3.2.1.2.2 Measuring for the presence of a Release where contamination is most likely to be present at the AST site. In selecting sample types, sample locations and measurement methods, the type of initial indication of contamination, type of backfill and soil, the depth of groundwater, and other factors appropriate for identifying the presence and source of
	Part E, Section 3.2.1.2.2	Added	the Release shall be considered; or
	Part E, Section 3.2.1.2.3 Part E, Section 3.2.1.3	Added	Other procedures as directed by the Department. When the abnormal operating condition is the result of an equipment failure or malfunction, Owners and Operators shall Repair or replace all faulty equipment in accordance with these Regulations. When the Release investigation determines that a
305	Part E, Section 3.2.1.4	Added	Release has occurred, Owners and Operators shall comply with the hydrogeologic investigation and Remedial Action requirements of PART E.4.2.
	Part E, Section 3.2.2	Added	If a Release is confirmed or a Repair is required, the Department must be notified within thirty (30) days of the completion of any Repairs and Indicated Release investigation. Owners and Operators and AST contractors shall submit documentation to the Department including, but not limited to, the following:
307	Part E, Section 3.2.2.1	Added	Repair completion documentation; and
	Part E, Section 3.2.2.2	Added	Sampling results; and
	Part E, Section 3.2.2.3 Part E, Section 3.2.3	Added	Test results as required by the Department. If following the Indicated Release Investigation, it is confirmed that a Release from an AST has not occurred, documentation of the Indicated Release Investigation must be maintained for the life of the AST.

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		Results of the Indicated Release Investigation must be
311 Part E, Section 3.2.3.1	Added	submitted to the Department if requested by the Department.
312 Part E, Section 4	Added	Release Response Requirements
313 Part E, Section 4.1	Added	Department Authority to Assume Control of Releases
313 Fait L, Section 4.1	Added	The Department reserves the right to assume control of any Release or Indicated Release situation when it is determined that the Owner and Operator are not responding promptly or effectively. In such cases all liability, including payment to the Department of response costs, will remain with the Owners and
314 Part E, Section 4.1.1	Added	Operators.
315 Part E, Section 4.1.2	Added	To protect human health, safety and the environment the Department reserves the right for the Department or its contractors to enter and take appropriate actions on affected properties to investigate, abate and remediate contamination.
316 Part E, Section 4.2	Added	Initial Release Response Requirements
317 Part E, Section 4.2.1	Added	In response to a Release from an AST, the Owner and Operator shall promptly take the following steps:
318 Part E, Section 4.2.1.1	Added	If a faulty AST component is determined to be the cause of a Release, the component or, if necessary, the entire AST system, shall be taken Out of Service and shall not be returned to service until the AST is functioning in compliance with all applicable portions of these Regulations; and
319 Part E, Section 4.2.1.2	Added	At the Department's direction a hydrogeologic investigation in accordance with PART E.Section 5 shall be conducted to determine an estimate of the amount and type of Regulated Substance Released; and
320 Part E, Section 4.2.1.3	Added	Owners and Operators shall implement the following to contain the Release:
321 Part E, Section 4.2.1.3.1	Added	If NAPL is present, NAPL Corrective Action shall be immediately initiated in accordance with PART E.4.3; and,
322 Part E, Section 4.2.1.3.2		Nearby receptors shall be protected from impacts of Regulated Substances by preventing free and mobile NAPL migration through recovery and containment, and the Department shall be notified of all such activities; and All flammable material shall be properly handled and vapors shall be mitigated to prevent fires, explosions
323 Part E, Section 4.2.1.3.3		and impacts to receptors.
324 Part E, Section 4.3	Added	NAPL Corrective Action Requirements

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			At sites where there is a Release of NAPL, the Owners and Operators shall remove and remediate the NAPL to the maximum extent practicable following the requirements established in PART E.Section 4 while continuing, as necessary, the Release confirmation steps and the investigation required in PART E.Section
325	Part E, Section 4.3.1	Added	5.
326	Part E, Section 4.3.2	Added	The Owners and Operators shall formulate a NAPL Conceptual Site Model (NCSM) to determine the most efficient and environmentally protective remedial approach for addressing the Release.
327	Part E, Section 4.3.3	Added	The Owners and Operators shall verbally communicate a preliminary NCSM to the Department within forty-eight (48) hours of the discovery of a Release of NAPL. The preliminary NCSM shall address as many of the criteria listed in PART E.4.3.4 as possible.
328	Part E, Section 4.3.4	Added	The NCSM shall at a minimum address the following factors with regard to the NAPL Release: The feasibility and necessity of an immediate
329	Part E, Section 4.3.4.1	Added	response;
	Part E, Section 4.3.4.2	Added	Direct and potential impacts to human health and the environment;
331	Part E, Section 4.3.4.3	Added	The type and estimated volume of the NAPL released;
	Part E, Section 4.3.4.4 Part E, Section 4.3.4.5	Added Added	The evidence, or occurrence, of the NAPL Release (Mobile NAPL, Free NAPL in a well, Residual NAPL discovered during an investigation); The potential recoverability of all NAPL phases;
334	Part E, Section 4.3.4.6	Added	The geometry of the NAPL Body;
336	Part E, Section 4.3.4.7 Part E, Section 4.3.4.8 Part E, Section 4.3.4.9	Added Added Added	The estimated age and duration of the NAPL Release; The characteristics of the subsurface soils; The chemical and physical properties of the NAPL; Groundwater classification for the area such as wellhead protection areas, excellent recharge areas, or
338	Part E, Section 4.3.4.10	Added	source water protection areas.
339	Part E, Section 4.3.5	Added	Owners and Operators shall base all short and long term Remedial Action decisions upon the information in the NCSM, which shall be updated, in writing, at a minimum of once every three (3) calendar months, or on a schedule approved by the Department.

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340 Part E, Section 4.3.6	Added	NAPL removal shall be conducted in a manner that minimizes the spread of contamination, including dissolved and vapor phases, into previously uncontaminated areas by using recovery and disposal techniques appropriate to the hydrogeologic conditions at the site, and that properly treats, discharges or disposes of recovery by-products in accordance with all applicable local, state and federal requirements.
Tare E, Cooker no.	radod	If NAPL recovery is not practicable, and does not support site Remedial Action objectives as determined
341 Part E, Section 4.3.7	Added	by the Department, Owners and Operators may submit a written request for Department approval to discontinue NAPL recovery. The request shall at a minimum include the following:
342 Part E, Section 4.3.7.1	Added	Technical feasibility of other proven groundwater and soil treatment techniques to further reduce NAPL at the site; and
		Costs, time frames, and resources involved to further reduce NAPL levels employing the current and
343 Part E, Section 4.3.7.2	Added	alternative method(s) proposed; and A demonstration that the remaining NAPL body is not contributing to any unstable daughter plumes such as a
344 Part E, Section 4.3.7.3	Added	dissolved plume and vapor migration; and A demonstration that remaining NAPL does not pose any risk to human health, safety, and the environment;
345 Part E, Section 4.3.7.4	Added	and An assessment of the persistence and fate of the
346 Part E, Section 4.3.7.5	Added	NAPL in the subsurface; and A description of the individual site characteristics,
347 Part E, Section 4.3.7.6 348 Part E, Section 4.3.7.7	Added	including natural rehabilitative processes; and Statements regarding current versus future land use of the site.
		The Department may require Owners and Operators to follow any applicable guidance or industry referenced standards in order to create a sound NCSM, from
349 Part E, Section 4.3.8	Added	which optimal Remedial Action decisions can be made.
350 Part E, Section 5	Added	Hydrogeologic Investigation Requirements
351 Part E, Section 5.1	Added	General Requirements for Hydrogeologic Investigation After a Release is confirmed, the Owner and Operator shall conduct a hydrogeologic investigation as the first step in the Corrective Action process unless directed to
352 Part E, Section 5.1.1	Added	do otherwise by the Department.
353 Part E, Section 5.1.2	Added	The investigation shall at a minimum include the following:

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354	Part E, Section 5.1.3	Added	Determine the nature of the Release, including the chemical compounds present, their concentrations, quantity released and their physical and chemical characteristics related to potential human health and environmental impacts and cleanup procedures; and
355	Part E, Section 5.1.3.1	Added	Determine the extent of the Release, both horizontal and vertical, including whether the contaminant is distributed homogeneously or heterogeneously; and
356	Part E	Added	5.1.3.2 Determine the physical characteristics of the site, including characteristics affecting the occurrence, distribution, and movement of the released contaminant and characteristics affecting access to the site, both horizontal and vertical, which may influence the feasibility of various investigatory and remediation procedures; and
357	Part E, Section 5.1.3.3	Added	Evaluate, in accordance with the Delaware Risk-Based Corrective Action Program (DERBCAP) or other Department approved procedure, the potential risks posed by the Release including identification of environmentally sensitive receptors, and estimate the impacts to human health and the environment that may occur as a result of the Release.
358	Part E, Section 5.1.4	Added	The results of the hydrogeologic investigation shall be organized in report form and be signed by a professional geologist or professional engineer registered in the State of Delaware as required in 24 Del.C. Chapter 36 and the Delaware Board of Registration of Geologists Regulations and 24 Del.C. Chapter 28.
359	Part E, Section 5.1.5	Added	The Department shall receive the results of the hydrogeologic investigation no later than one hundred and twenty (120) days after the Release was reported and confirmed. Upon receiving the hydrogeologic investigation report, the Department shall review the report and either accept the conclusions and recommendations of the report, require additional information to be submitted, or require that the Owner and Operator submit a remedial action work plan as required by PART E.Section 7.

A	В	C
		At any point after reviewing the information contained
		in the hydrogeologic investigation report, the
		Department may require the Owner and Operator to
		submit additional information or to develop and submit
		a remedial action work plan to address contaminated
360 Part E, Section 5.1.6	Added	soils, surface water or groundwater.
		Additional investigation information or remedial action
		Additional investigation information or remedial action work plans requested by the Department shall be
		submitted within ninety (90) days or other Department
361 Part E, Section 5.1.7	Added	approved schedule.
3011 art E, Coolion 6.1.7	raded	Owners and Operators may submit investigation
		reports for a site separately or as part of a proposed
		long term Remedial Action work plan in accordance
362 Part E, Section 5.1.8	Added	with the requirements of PART E.Section 7.
363 Part E, Section 5.2	Added	Quality Assurance and Quality Control Requirements
3031 art E, Gection 3.2	Added	Owners and Operators shall develop and implement a
		site specific Quality Assurance/Quality Control
		(QA/QC) plan for the activities to be carried out during
		the hydrogeologic investigation. The QA/QC plan shall
		be submitted to the Department upon the request of
364 Part E, Section 5.2.1	Added	the Department.
365 Part E, Section 5.3	Added	Site Safety Requirements
303 Fart E, Section 3.3	Added	Owners and Operators shall develop and implement a
		site specific health and safety plan that covers all
		hydrogeologic investigation tasks. The health and
		safety plan shall address the site worker protection
		levels, protection of persons living near the site and
		site access control during the investigation. The health
		and safety plan shall be submitted to the Department
366 Part E, Section 5.3.1	Added	upon the request of the Department.
367 Part E, Section 6	Added	Administrative Option for Remedial Action
	A 11.1	Requirements for Administrative Option for Remedial
368 Part E, Section 6.1	Added	Action
		The Department resumains the requirement of a
		The Department may waive the requirement of a
		hydrogeologic investigation when the Owner and Operator has taken the appropriate initial response
		steps to eliminate imminent dangers and to prevent
		any further Release and the Owner and Operator
		chooses to submit a Remedial Action work plan
		(RAWP) to remediate contaminated soil, ground water
369 Part E, Section 6.1.1	Added	and/or surface water.
		If the Department determines that the implementation
		of Remedial Actions are not achieving adequate
		protection of human health and the environment, the
		Department may require additional responses to be
370 Part E, Section 6.1.2	Added	taken.

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379 Part E, Section 7.1.2 Added the site. The Owner and Operator shall modify any RAWP the does not provide for adequate protection of human health, welfare, safety and the environment, as necessary to meet the requirements of PART E.Section 8.			
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380 Part E, Section 7.1.3 Added E.Section 8.			
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	DOUTAILE, SECTION 7.1.3	Audeu	The RAWP shall include sufficient design information
			that demonstrates that the remedial technology shall
<u> </u>			meet the cleanup goals approved by the Department
and shall include an estimated time to cleanup			
· ·			completion for the remediation method proposed in the
381 Part E, Section 7.1.4 Added RAWP.	R81 Part F. Section 7.1.4	Added	
· ·	, are 2, 00000111111	7.0000	A RAWP shall propose a Remedial Action method for
382 Part E, Section 7.1.5 Added the site that shall:	Part E, Section 7.1.5	Added	· · ·
	,		Reduce the contaminant levels at the site to meet the
			cleanup goals proposed in the Remedial Action work
	383 Part E, Section 7.1.5.1	Added	plan and approved by the Department; or

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384 Part E, Section 7.1.5.2	Added	Reduce the contaminant levels to achieve the cleanup goals established by the Department; or
		Monitor the site over time to provide technically based assurance that the site contamination is controlled under natural conditions and that those conditions will
385 Part E, Section 7.1.5.3	Added	not now, or at some future time, adversely impact human health, safety or the environment.
386 Part E, Section 7.1.6	Added	The Department shall approve the RAWP when satisfied that implementation of the RAWP provides for measures considered adequate to protect human health, safety, and the environment.
387 Part E, Section 7.1.7	Added	The RAWP shall be organized in report form and signed by a professional geologist or professional engineer registered in the State of Delaware as required in 24 Del.C. Chapter 36 and the Delaware Board of Registration of Geologists Regulations and 24 Del.C. Chapter 28.
388 Part E, Section 7.1.8	Added	The RAWP shall be of site specific design and shall be based on the results of the hydrogeologic investigation, or contain appropriate investigatory steps if submitted without a prior hydrogeologic investigation having been completed.
389 Part E, Section 7.1.9	Added	The RAWP may propose a phased approach to site remediation. If data can justify site closure, Owner and Operator may request site closure in accordance with the requirements of PART E.Section 8. Remedial Action will be considered complete only upon the Department's evaluation and approval of a satisfactory closure request.
390 Part E, Section 7.1.10	Added	The RAWP shall include a summary of past efforts and a description of any new or continued efforts to effectively remove NAPL as described in PART E.Section 4.
391 Part E, Section 7.2	Added	Quality Assurance and Quality Control Requirements
392 Part E, Section 7.2.1	Added	Owners and Operators shall develop and implement a site specific Quality Assurance/Quality Control (QA/QC) plan for the activities to be carried out during implementation of the RAWP and the QA/QC plan shall be included in the RAWP submitted to the Department.
393 Part E, Section 7.3	Added	Site Safety Requirements
394 Part E, Section 7.3.1	Added	Owners and Operators shall develop a site-specific health and safety plan which shall be included in the RAWP and shall cover all Remedial Action tasks. The health and safety plan shall, at a minimum, address site worker protection levels, protection of persons living near the site, and site access control during the remediation.
395 Part E, Section 7.4 396 Part E, Section 7.4.1	Added	Implementation and Reporting Schedule Upon approval of the RAWP by the Department, the Owners and Operators shall implement the RAWP, including any modifications to the RAWP made by the Department, within the timeframe approved by the Department.

	List of Proposed Changes A	
A	В	C Owners and Operators shall maniter, avaluate and
397 Part E, Section 7.4.2	Added	Owners and Operators shall monitor, evaluate and report to the Department the results of implementing the Remedial Action at a minimum of once every three (3) calendar months, or within the time schedule approved in the RAWP. Copies of all records documenting the transport and disposal of any free product, contaminated water and soil, or other waste that is generated at the site while investigation and Remedial Action work is being performed shall be included in each report.
		Owners and Operators shall submit a Remedial Action progress report to the Department once every twelve (12) calendar months that includes an evaluation of the effectiveness of the Remedial Action to determine whether additional measures must be implemented to meet the cleanup goals established in the RAWP. The evaluation shall include an estimate of time to
398 Part E, Section 7.4.3	Added	Remedial Action completion.
399 Part E, Section 7.4.4	Added	Owners and Operators shall submit recommendations for optimization and improvement as needed to achieve the cleanup goals established in the RAWP, as part of each Remedial Action progress report.
400 Part E, Section 7.5	Added	Post Remedial Monitoring
401 Part E, Section 7.5.1	Added	Upon completion of Remedial Action activities the Owners and Operators shall perform four (4) consecutive quarters of groundwater sampling or other sampling schedule as approved by the Department to ensure the contaminant plume is stable and shrinking and that rebounding does not occur.
402 Part E, Section 8	Added	No Further Action
403 Part E, Section 8.1	Added	Request for No Further Action Determination
404 Part E, Section 8.1.1	Added	After all RAWP goals have been achieved, the Owner and Operator shall submit a written request to the Department for site closure. Closure documentation shall include but is not limited to the following:
405 Part E, Section 8.1.1.1 406 Part E, Section 8.1.1.2	Added	A demonstration that the site does not threaten human health, safety and the environment based on current land use of the site and surrounding area; and NAPL does not exist or has been addressed in accordance with PART E.4.3; and
		accession many and annual annu
407 Part E, Section 8.1.1.3	Added	Contaminant levels have been reduced to levels at or below the cleanup goals approved by the Department. Owners and Operators shall submit all documents,
408 Part E, Section 8.1.2	Added	permits, certificates, approvals, etc. relating to the transportation of impacted environmental media and materials from the site including ASTs, soils, Regulated Substances, and water that has not been previously submitted to the Department. Documentation shall include tipping fees, waste receipts, bills of lading or any other documentation verifying that all waste has been properly disposed.

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409	Part E, Section 8.2	Added	Department Response to a Request for No Further Action
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110	Dort C. Continu 0.04		The Department shall issue a letter requiring no further action (NFA) and documenting that site cleanup objectives have been met. The closure approval does not absolve the Owner and Operator from previously
410	Part E, Section 8.2.1	Added	incurred or potential future liability.
411	Part E, Section 8.2.2	Added	The NFA letter applies to site conditions at the time that the closure request was made. If the risk posed by the site changes in the future, due to land use changes at the site or surrounding area or due to other reasons, the Owner and Operator shall perform additional Remedial Action as necessary to eliminate the risk to human health, safety and the environment.
711	Tart E, Occilor 6.2.2	Added	Any Person disturbing any residual contamination at the site by digging, boring, excavating, dewatering, or other means, shall submit a contaminated material management plan to the Department for approval prior
412	Part E, Section 8.2.3	Added	to work commencing.